

Title (en)

Sustained release capsule and formulations for insertion into rumen

Title (de)

Kapsel und Zusammensetzungen mit verzögerter Wirkstoffabgabe zur Einführung in Pansen

Title (fr)

Capsule à libération retardée et formulations pour l'insertion dans le rumen

Publication

EP 0715847 A3 20031119 (EN)

Application

EP 96200392 A 19920403

Priority

- AU PK549091 A 19910405
- AU PK839491 A 19910916
- EP 92302997 A 19920403

Abstract (en)

[origin: EP0507629A1] A sustained release capsule (8) adapted to be inserted into the rumen of a ruminant animal through its oesophagus and retained within the rumen over a prolonged period to continuously deliver a biologically active composition (32) carried in the capsule (8), comprising an elongated tubular body (10) comprising a tube (16) and an end cap (12) secured to one end thereof for substantially enclosing the biologically active composition (32), the other end of the capsule (8) being a delivery end (18), the body (10) having an opening (20) at the delivery end (18) of the capsule (8) for delivery of the composition (32) to the rumen, and a plurality of retention arms (44) attached to or formed integrally with the cap (12), the arms (44) being adapted to extend outwardly from the cap (12) for retaining the capsule (8) in the rumen, the arms (44) being resilient to enable them to bend from their outwardly extending positions toward the body (10) so that they lie alongside the body (10) allowing the capsule (8) to be inserted through the animal's oesophagus, the resilient arms (44) normally extending from the body (10) at an angle between 75 DEG and 90 DEG with respect to the axis of the tubular body (10), and for each arm (44) said cap (12) has an external curved surface (26) disposed with respect to the arm (44) so that when the arm (44) is bent toward the body (10), the arm (44) contacts the curved surface (26) and the curved surface (26) controls the bending of the arm (44) so that the arm (44) does not bend abruptly, said arms (44) being adapted to return to their outwardly extending positions when the capsule (8) reaches the rumen, characterised in that said cap (12) is secured to said one end by means of at least two circumferential beads (30) having at least one sealing ring (31) located therebetween. <IMAGE> <IMAGE>

IPC 1-7

A61K 9/00; A61M 31/00

IPC 8 full level

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IPC 8 main group level

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CPC (source: EP KR US)

A61K 9/00 (2013.01 - KR); **A61K 9/0068** (2013.01 - EP US)

Citation (search report)

- [A] EP 0079724 A2 19830525 - LILLY CO ELI [US]
- [A] WO 8200094 A1 19820121 - COMMW SCIENT IND RES ORG [AU], et al
- [A] EP 0263691 A2 19880413 - COOPERS ANIMAL HEALTH [AU]
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- [A] EP 0057072 A1 19820804 - LILLY CO ELI [US] & AU 556299 A

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